SIEMENS

Data sheet 3RT2026-1AF04



power contactor, AC-3e/AC-3, 25 A, 11 kW / 400 V, 3-pole, 110 V AC, 50 Hz, auxiliary contacts: 2 NO + 2 NC, screw terminal, removable auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
product extension	
 function module for communication 	No
auxiliary switch	No
power loss [W] for rated value of the current	
 at AC in hot operating state 	5.7 W
 at AC in hot operating state per pole 	1.9 W
 without load current share typical 	9.8 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °C
 during storage 	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	

number of poles for main current sircuit	2
number of poles for main current circuit number of NO contacts for main contacts	3
operating voltage	3
at AC-3 rated value maximum	690 V
at AC-3 rated value maximum at AC-3e rated value maximum	690 V
operational current	000 V
at AC-1 at 400 V at ambient temperature 40 °C rated value	40 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	40 A
 — up to 690 V at ambient temperature 60 °C rated value at AC-3 	35 A
— at 400 V rated value	25 A
— at 500 V rated value	18 A
— at 690 V rated value	13 A
• at AC-3e	10 /1
— at 400 V rated value	25 A
— at 500 V rated value	18 A
— at 690 V rated value	13 A
• at AC-4 at 400 V rated value	15.5 A
• at AC-5a up to 690 V rated value	35.2 A
at AC-5b up to 400 V rated value	20.7 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	20.2 A
 up to 400 V for current peak value n=20 rated value 	20.2 A
— up to 500 V for current peak value n=20 rated value	20.2 A
 up to 690 V for current peak value n=20 rated value at AC-6a 	12.9 A
up to 230 V for current peak value n=30 rated value	13.5 A
 up to 400 V for current peak value n=30 rated value 	13.5 A
— up to 500 V for current peak value n=30 rated value	13.5 A
— up to 690 V for current peak value n=30 rated value minimum cross-section in main circuit at maximum AC-1	13 A 10 mm²
rated value operational current for approx. 200000 operating	10 min
cycles at AC-4	
at 400 V rated value	9 A
• at 690 V rated value	9 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	20 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
with 2 current paths in series at DC-1 — at 24 V rated value	35 A
— at 24 v rated value — at 60 V rated value	35 A 35 A
— at 110 V rated value	35 A
— at 110 V rated value — at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	35 A

(440)/ (]]	05.4
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
at 1 current path at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
with 3 current paths in series at DC-3 at DC-5	0.107
— at 24 V rated value	35 A
— at 24 v rated value — at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
• at AC-3	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	11 kW
• at AC-3e	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	11 kW
operating power for approx. 200000 operating cycles	
at AC-4	
at 400 V rated value	4.4 kW
at 690 V rated value	7.7 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	8 kVA
 up to 400 V for current peak value n=20 rated value 	13.9 kVA
 up to 500 V for current peak value n=20 rated value 	17.4 kVA
 up to 690 V for current peak value n=20 rated value 	15.4 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	5.3 kVA
 up to 400 V for current peak value n=30 rated value 	9.3 kVA
 up to 500 V for current peak value n=30 rated value 	11.6 kVA
 up to 690 V for current peak value n=30 rated value 	15.5 kVA
short-time withstand current in cold operating state	
up to 40 °C	
 limited to 1 s switching at zero current maximum 	375 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	300 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	210 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	144 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	118 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
at AC-1 maximum	1 000 1/h
at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
at AC-4 maximum	250 1/h

type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz apparent pick-up power of magnet coil at AC • at 50 Hz apparent pick-up power of magnet coil at AC • at 50 Hz apparent holding power of the coil • at 50 Hz apparent holding power of magnet coil at AC • at 50 Hz apparent holding power of magnet coil at AC • at 50 Hz inductive power factor with the holding power of the coil • at 50 Hz closing delay • at AC arcing time control version of the switch operating mechanism Auxiliary of cruit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 480 V rated value • at 680 V rated value • at 680 V rated value • at 48 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value • at 140 V rated value • at 140 V rated value • at 140 V	
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* at 50 Hz	0.8 1.1
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■ at 50 Hz apparent holding power of magnet coil at AC ■ at 50 Hz inductive power factor with the holding power of the coil ■ at 50 Hz inductive power factor with the holding power of the coil ■ at 50 Hz closing delay ■ at AC	77 VA
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inductive power factor with the holding power of the coil at 50 Hz closing delay at AC opening delay at AC the service of the switch operating mechanism at AC arcing time control version of the switch operating mechanism and the switch operating the switch operating mechanism and the switch operation of the switch operation and the switch operation and current at AC-12 maximum and the switch operation and current at AC-12 maximum and the switch operation and current at AC-12 maximum and the switch operation and current at AC-15 and the switch operation and the switch operation and current at DC-12 at 24 V rated value at 48 V rated value at 48 V rated value at 50 V rated value at 60 V rated value	net coil at AC
coil	9.8 VA
■ at 50 Hz closing delay ■ at AC	holding power of the
closing delay	0.05
	0.25
opening delay	0 40
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operational current at DC-13 • at 24 V rated value 6 A • at 48 V rated value 2 A • at 60 V rated value 2 A • at 110 V rated value 1 A	
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value 1 A 	0.15 A
 at 48 V rated value at 60 V rated value at 110 V rated value 1 A 	6 ^
 at 60 V rated value at 110 V rated value 1 A 	
• at 110 V rated value 1 A	
at 125 V rated value 0.9 A	
• at 220 V rated value 0.3 A	
• at 600 V rated value • at 600 I rated value	
contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA)	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	ase AC motor
• at 480 V rated value 21 A	
• at 600 V rated value 22 A	
yielded mechanical performance [hp]	e [hp]
for single-phase AC motor	
— at 110/120 V rated value 2 hp	ue 2 hp
— at 230 V rated value 3 hp	·
• for 3-phase AC motor	
— at 200/208 V rated value 5 hp	ue 5 hp
— at 220/230 V rated value 7.5 hp	
— at 460/480 V rated value 15 hp	ue 15 hp
— at 575/600 V rated value 20 hp	ue 20 hp
contact rating of auxiliary contacts according to UL A600 / Q600	000 / 000 / 000

Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 100 A (415 with type of coordination 1 required V, 80 kA) - with type of assignment 2 required gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 80kA) • for short-circuit protection of the auxiliary switch gG: 10 A (500 V, 1 kA) required Installation/ mounting/ dimensions mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes • side-by-side mounting 85 mm height width 45 mm depth 141 mm required spacing • with side-by-side mounting 10 mm forwards 10 mm - upwards - downwards 10 mm - at the side 0 mm • for grounded parts 10 mm — forwards 10 mm - upwards - at the side 6 mm - downwards 10 mm · for live parts - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals · for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals · of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts solid 2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²) solid or stranded 2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²) • finely stranded with core end processing 2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), 1x 10 mm² connectable conductor cross-section for main contacts solid 1 ... 10 mm² 1 ... 10 mm² • finely stranded with core end processing 1 ... 10 mm² connectable conductor cross-section for auxiliary contacts 0.5 ... 2.5 mm² solid or stranded • finely stranded with core end processing 0.5 ... 2.5 mm² type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) - finely stranded with core end processing 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) · at AWG cables for auxiliary contacts 2x (20 ... 16), 2x (18 ... 14) AWG number as coded connectable conductor cross section • for main contacts 16 ... 8 for auxiliary contacts 20 ... 14 Safety related data product function

• mirror contact according to IEC 60947-4-1

 positively driven operation according to IEC 60947-5-1

B10 value with high demand rate according to SN 31920 proportion of dangerous failures

• with low demand rate according to SN 31920

• with high demand rate according to SN 31920

failure rate [FIT] with low demand rate according to SN 31920

T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 suitability for use

· safety-related switching OFF

Yes

No

450 000

40 %

73 % 100 FIT

20 a

IP20

finger-safe, for vertical contact from the front

Yes

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination
Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













other

Railway

Confirmation



Confirmation

Vibration and Shock

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2026-1AF04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2026-1AF04

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

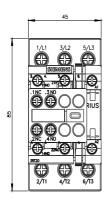
https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1AF04

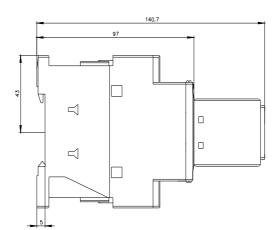
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2026-1AF04&lang=en

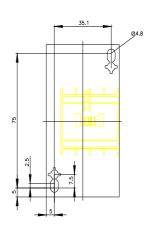
Characteristic: Tripping characteristics, I2t, Let-through current

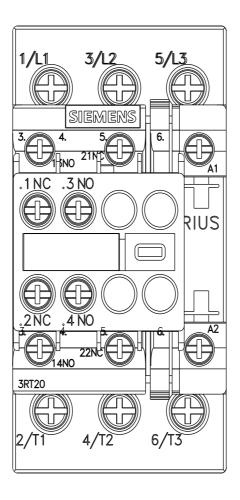
https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1AF04/char

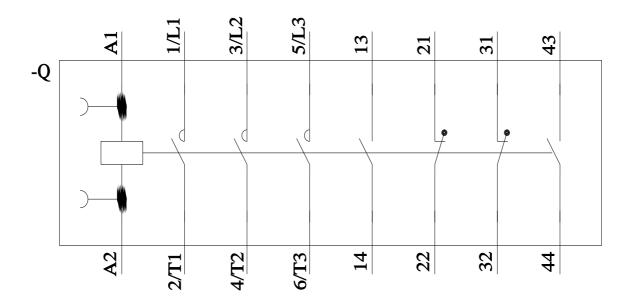
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-1AF04&objecttype=14&gridview=view1











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